

ing a humming-bird, he brought down his bird, a large *Sphinx*, and this pretty species of *Gymnetis*, at the same shot; our specimen has still the mark where the shot struck it.

I have named it in compliment to Mr. Dyson, who has been a most assiduous collector of zoological specimens in Honduras and Venezuela. Mr. Doubleday has named a very striking species of Butterfly, *Euterpe Dysoni* (Ann. and Mag. of Nat. Hist. vol. xix. p. 385), after him. There has not been a more active or intelligent collector in this country than Mr. Dyson.

On p. 15, as Dr. Schaum pointed out to me, remove *Clinteria flavomarginata*, and put it as a variety of *C. atra*; we have lately acquired two specimens of this pretty variety.

At p. 15 add *Clinteria Hoffmeisteri*, White, a very distinct hairy species from Northern India, lately acquired by the Museum.

[To be continued.]

## XXVI.—The Classification of the British Mollusca.

By W. E. LEACH, M.D.

To Richard Taylor, Esq.

MY DEAR SIR,

September 9th, 1847.

In a late visit to the North I observed that several British conchologists were much interested in knowing what was the arrangement of British Mollusca proposed by my late excellent friend and first teacher in zoology Dr. Leach, and that some of them had even taken the trouble to copy the proof sheets of his work which were in the possession of one or two persons.

Knowing that several copies of Dr. Leach's list were in circulation, his names being in common use in several cabinets at the time he was at work on the subject, I applied to Mr. James Francis Stephens, who was in constant communication with Dr. Leach, and he at once produced me the list which I herewith send, with the heading it now bears, and a former one not so complete; but as this list contains a few names not inserted in the latter one, I have added them in their places, marking them with an asterisk and with the date of the first list, 1816.

It is much to be regretted that Dr. Leach's MSS., which I am aware were prepared with the characters of his genera in detail, have not been printed, that his extensive labours on this part of the animal kingdom should not be lost to the world. To make the list more easily understood, I have added the genus to which Montagu or Lamarck has referred the species, after the name used by Dr. Leach.

I am much inclined, as these names were for years exhibited

in the Museum collection and in the cabinets of Mr. Stephens, the late Mr. James Sowerby, my own and others, to regard them as published and having priority from 1818. Risso, Capt. Brown and others have published several of them in their works.

I am, dear Sir, yours truly,

J. E. GRAY.

"Classification of the British Mollusca by W. E. Leach, M.D., 1818."

- |                                      |  |
|--------------------------------------|--|
| 1. CEPHALOPODA.                      | 2. <i>Aplysiadæ.</i>   |
| 1. OCTOPODA.                         | 12. <i>Aplysia varians.</i>  |
| 1. <i>Sepioladæ.</i>                 | 13. <i>Esmia Griffithsiana.</i>  |
| 1. <i>Polypus antiquorum.</i>        | 3. <i>Marseniadæ.</i>  |
| 2. DECAPODA.                         | 14. <i>Marsenia producta.</i> Bulla<br><i>halioidea, Mont.</i><br><i>complanata.</i> Bulla, <i>Mont.</i>     |
| 2. <i>Sepiadæ.</i>                   | 4. <i>Bulladæ.</i>   |
| 2. <i>Sepiola Rondeletii.</i>        | 15. <i>Bullæa planciana.</i> Bulla<br><i>aperta, Linn.</i>   |
| 3. <i>Sepia officinalis.</i>         | 16. <i>Scaphander lignarius.</i> Bulla,<br><i>Linn.</i>  |
| 3. <i>Loliginidæ.</i>                | <i>catenatus.</i><br><i>Brownii.</i>   |
| 4. <i>Loligo magna.</i>              | 17. <i>Haminea Cuvieri.</i> B. <i>hy-</i><br><i>datis, Mont.</i> B. <i>Lamarckii,</i><br><i>Leach, 1816.</i> |
| <i>parva.</i>                        | <i>dilatata.</i><br><i>elegans.</i> Bulla <i>eleg., Gray.</i>  |
| 2. GASTEROPODA.                      | 18. <i>Eucampe Donovanii.</i> Bulla<br><i>akera, Mont.</i>   |
| 1. GYMNOBANCHIA.                     | 19. <i>Roxania Cranchii.</i>   |
| 1. <i>Dorididæ.</i>                  | 3. SACCOBRANCHIA.  |
| 5. <i>Doris Montagui.</i>            | 1. <i>Limacidæ.</i>  |
| <i>Britannica.</i>                   | 20. <i>Arion Empiricorum.</i>  |
| <i>vulgaris.</i>                     | <i>hortensis.</i>  |
| <i>Rocinella.</i>                    | 21. <i>Limax antiquorum.</i>   |
| <i>Elfortiana.</i>                   | <i>maculatus.</i>  |
| <i>Leachii.</i>                      | <i>variegatus.</i>   |
| <i>marginata.</i>                    | <i>carinatus.</i>  |
| <i>nodosa.</i>                       | <i>agrestis.</i>   |
| <i>coccinea.</i>                     | 2. <i>Helicidæ.</i>  |
| 6. <i>Cufæa plana.</i>               | 22. <i>Succinea Mulleri.</i> H. <i>pu-</i><br><i>tris, Mont.</i>   |
| 2. <i>Eolidiadæ.</i>                 | 23. <i>Vitrina Draparnaldi.</i>  |
| 7. <i>Eolidia</i> — ?                | 24. <i>Helix aspersa.</i> <i>Helix</i> — ?   |
| 3. <i>Tritoniadæ.</i>                | 25. <i>Tachæa nemoralis.</i>   |
| 8. <i>Tritonia Hombergii.</i>        | <i>hortensis.</i>  |
| 9. <i>Idalia maculata.</i>           |  |
| 2. STEGOBRANCHIA.                    |  |
| 1. <i>Pleurobranchidæ.</i>           |  |
| 10. <i>Cleanthus Montagui.</i> Bulla |  |
| <i>plumula, Mont.</i>                |  |
| 11. <i>Osanius argentatus.</i> (B.)  |  |
| <i>membranaceus, Mont.</i> )         |  |

26. *Arianta arbustorum.*
27. *Pomatia antiquorum.*
28. *Teba cingenda.*
- virgata.
  - cantiana.
  - carthusianella.* H. Gibbsii.
  - rufescens.
  - caperata.
  - (fulva). *H. trochiformis, M.*
  - (hispida).
  - aculeata.
  - (spinulosa), *Mont.*
29. *Zonites ericetorum.*
- radiatus.
  - rupestris.
  - nitidus.
  - crystallinus.
30. *Chilotrema Lapicida.* *Helix, Linn.*
31. *Zurama pulchella.* *Helix, L.*
32. *Elismia fasciata.* *Turbo, M.*
33. *Ena montana.* H. Lackhamensis, *Mont.*
- obscura. *Helix, Mont.*
34. *Zua lubrica.* *Helix, Mont.*
35. *Balæa fragilis.* *Turbo perversus, Linn.*
36. *Clausilia laminata.* *Turbo, Mont.*
- Rolphii.
  - biplicata. *Turbo, Mont.*
  - rugosa. *T. bidens, Mont.*
37. *Azeca Matoni.*
38. *Abida secale.* *T. juniperi, M.*
39. *Pupilla Draparnaldi.*
- marginata. *Turbo, Turt.*
40. *Vertigo palustris.*
- vulgaris.
  - heterostropha. *T. vertigo, Mont.*
- (40\*). *Acicula pellucida.* *Buc. terrestre, Mont.*) Left out apparently by mistake.
3. *Carychiadæ.*
41. *Carychium minimum.* *Turbo C., Mont.*
42. *Jamnia bidentata.* *Voluta, Mont.*
43. *Alexia denticulata.* *Voluta, Mont.*
4. *Lymnadæ.*
44. *Stagnicola \*octonfracta.*
- Helix, Mont.*
- \*communis (palustris).
  - minuta, var.
  - \*elegans. (stagnalis, var.)
  - vulgaris (stagnalis).
45. *Gulnaria peregra.* *Helix, M. lacustris.*
- auricularia. *Helix, M.*
46. *Myxas Mulleri (glutinosa).*
47. *Physa fontinalis.* *Bulla, M.*
48. *Nauta Hypnorum.*
49. *Planorbis \*corneus.*
- \*albus.
  - carinatus.
  - marginatus.
  - Sheppardi.
  - \*imbricatus.
  - \*contortus.
  - \*Vortex.
  - spinorbis.
50. *Hemithalamus nitidus.* *Nutilus lacustris, Mont.*
5. *Ancylidæ.*
51. *Ancylus lacustris.* *Patella, Mont.*
- fluvialis.
4. *PHYLLOBRANCHIA.*
1. *Iodeidæ.*
52. *Iodes angulatus.* *—? Norrissii. —?*
2. *Cypræadæ.*
53. *Cypræa europæa.*
54. *Simia Pennantiana.* *Bulla patula.* B. Blainvillii, 1816.
55. *Marginella anglica.* *Cyprea Voluta, Mont.*
3. *Purpuridæ.*
56. *Acteon tornatilis.* *Voluta, Mont.*
57. *Ocenebra erinacea.* *Murex, Mont.*
58. *Purpura lapillus.* *Buc., M.*
59. *Hinia \*minuta.* *Nassa reticulata.*
- \*lævigata. *Planaxis mol-lis, Sow.*

60. *Buccinum* \**Puxleianum*.  
 undatum. *Buc., M.*  
 antiquatum. *Murex, M.*  
 \*corneum. *Murex, M.*  
*Bamfium. Murex, M.*  
*Turricula. Murex, M.*  
 \**B. Leachii, Leach, 1816.*
61. *Fusus muricatus*. *Murex, Mont.*  
 asperimus.
62. *Mangelia gracilis*. *Murex, Mont.* *Pleurotoma, Leach, 1816.*  
 purpurea. *Murex, Mont.*  
 elegans.  
 linearis. *Murex, Mont.*  
 costata. *Murex. M. Bela Donovani, Leach, 1816.*  
*Goodallii.*  
*lineata.*
63. *Bela nebula*. *Murex, Mont.*  
 rufa.  
*Cranchii.*  
 minima. *Bucc., Mont.*  
 septangularis. *Murex, M.*  
 attenuata. *Murex, M.*
64. *Aphorais Pes-pelecani*. *Strombus, M.*
65. *Bittium reticulatum*. *Murex.*  
 tuberculare. *Murex.*  
 adversum. *Murex.*  
 elegantissimum.  
*Spenceri.*
4. *Turbonidæ.*
66. *Sabanæa eburnea*.  
 ventrosa. *Turbo, Mont.*  
 rubra. *Turbo, Mont.*  
 interrupta. *Turbo, Mont.*  
 cingilla. *Turbo, Mont.*  
 "Var. *T. semistriata, M.*"  
 unifasciata. *Turbo, Mont.*  
 ulvæ. *Turbo, Mont.*  
 unidentata.  
 plicata.  
 paucicostata.
67. *Assiminea Grayana*.
68. *Scalaria clathrus*. *Turbo, Linn.*  
*Prideauxiana.*
69. *Turritella terebra*. *Turbo, Mont.*  
 unica. *Turbo, Mont.*  
 nitidissima. *Turbo, Mont.*  
 vitrea.  
 punctura.  
 truncatula.  
 elegantissima. *Turbo, M.*  
*Ebala eleg. Leach, 1816.*  
*\*E.crenata, Leach, 1816.*
70. *Turbanilla varians*.  
 Montagui.  
 costata.  
 decussata.  
 striata.  
 pallida.  
 transparens.  
 angusta.  
 nivosa.  
 vitrea.
71. *Alvania striata*.  
*Cranchii.*  
 costata.  
 ("71\*. *Alvania zetlandica*. *Turbo perforatus.*")
72. *Zippora Drummondii*.
73. *Trochus tenuis*, *Mont.*  
 irregularis.  
*\*T. Lyonsii, Leach, 1816.*  
*ziziphinus, Mont.*  
*Clelandi.*  
*Cranchii.*  
*Montagui, Leach MSS.;*  
*Gray; Wood, Sup. f.*
74. *Trochius crassus*. *Trochus, Mont.*
75. *Gibbula tumida*. *Trochus, Mont.*  
 striata.  
 lineata. *Trochus, M. & R.*  
*magus. Trochus, Linn.*
76. *Natica Britannica*. *N. glau-cina, Mont.*  
*Lamarckii. N. Alderi,*  
*Forbes.*
77. *Nerita littoralis*, *Linn.*
78. *Neritina europaea*.
79. *Temana pallidula*. *Nerita, M*

- Temana lacuna. *Helix, Mont.*  
 T. Flemingii, *Leach,*  
 1816.  
 variabilis.  
 puteolus.
80. *Turbo littoreus, Linn.*  
 striatus.  
 rudit, *Mont.*  
 tenebrosus, *Mont.*  
 petricola. H. petrea, *M.*  
 striatulus.
81. *Turboella rufilabris, Risso.*  
 scotica.  
 Goodalliana.  
 calathriscus.  
 punctata.  
 zetlandica.  
 Hutchingsiana.  
 brevis.
82. *Epheria Bulveri.* *Turbo canalis, Mont.*  
 vincata. *Turbo, Mont.*  
 quadrifasciata. *Turbo, M.*  
 E. Goodallii, *Leach,*  
 1816.
83. *Turbona reticulata.*  
 semicostata.
84. *Littorelæa Pultneyii.*
85. *Medoria crassior.* *Turbo, M.*  
 Damnoniensis.  
 tenebrosa.
86. *Margarites diaphana.* *Helix Marg. Mont.* Margarita,  
*Leach, 1816.*
87. *Truncatula truncata.* *Truncatella, Risso.*  
 subtruncata.
88. *Thicolia varians.* *Turbo pullus, Mont.*
89. *Balcis Montagui.* *Helix polita, Mont.*  
 testacea.  
 arcuata.
5. *Paludinidae.*
90. *Valvata Mulleri.*  
 fontinalis.
91. *Paludina vulgaris.*  
 achatina.
92. *Bithinia jaculator.*  
 ventricosa.
5. **ANTROBRANCHIA.**  
 1. *Cyclostomiadæ.*
93. *Cyclostoma elegans.*
6. **ASPIDOBRANCHIA.**  
 1. *Fissurellidæ.*
94. *Fissurella græca.* *Patella, M.*
95. *Cemoria Montagui.* *P. aper-tura, Mont.*  
 Flemingii. P. Naochina.
96. *Emarginula vulgaris.* *P. fis-sura, Mont.*
2. *Capulidæ.*
97. *Capulus hungaricus.* *Pa-tella, Mont.*
98. *Mitella sinensis.* *Patella, M.*
7. **CYCLOBRANCHIA.**  
 1. *Patelladæ.*
99. *Patella vulgata.*  
 parva.  
 Clelandi.
100. *Patina lævis.* *Patella, M.*  
 pellucida.
2. *Chitonidæ.*
101. *Lepidopleura punctulatus.*  
 carinatus.  
 albus.
102. *Acanthochætes vulgaris.*
103. *Chiton cinereus.*  
 Flemingii.  
 ruber.  
 Cranchii.  
 tuberculatus.  
 fuscatus.  
 lævis.  
 latus.  
 scoticus.  
 variegatus.
3. *Ascididæ.*
1. *Tethydes.* 1. *Tethyadæ.*
104. *Botryllus Leachii.*  
 Schlosseri.  
 Savignii.  
 Gærtneri.
2. *Asciadiadæ.*
105. *Ascidia Britannica.*  
 papillosa.

*Pholadiadæ.*

- Teredo 1. *navalis*.  
 Pholas 1. *crispata*.  
   2. *parva*.  
   3. *dactylus*.  
 —? 1. —?  
 Barnia 1. *candida*.  
 Gastrochæna 1. *fulva*.  
 Biapholus 1. *spinosus*.  
   2. *rugosus*.  
*Soleniadæ.*  
 Solen 1. *marginata*.  
   2. *siliqua*.  
     ( $\beta.$  *novacula*).  
   3. *ensis*.  
   4. *pellucidus*.  
 Pharus 1. *legumen*.  
 Azor 1. *antiquatæ*.  
   2. *variabilis*.

*Myadæ.*

- Magdala (*striata*).  
 Mya 1. *arenaria*.  
   2. *truncata*.  
 Thracia 1. *prætenuis*.  
   2. *declivis*.  
   3. (*Montagui*).  
   4. *distorta*.  
 Lutraria 1. *elliptica*.  
   2. *solenoides*.  
 Abra 1. *Listeri*. (*compressa*).  
   2. *tenuis*.  
   3. *Boysii*.  
   4. *prismaticæ*.

*Mactraädæ.*

- Mactra 1. *stultorum*.  
   2. *subtruncata*.  
   3. *truncata*.  
   4. *solida*.  
 Lembulus 1. *minutus*.  
 Nucula 1. *margaritacea*.

*Veneriadæ.*

- Cyclas 1. *rivicola*.  
   2. *cornea*.  
   3. (*stagnicola*).  
   4. *amnica*.  
 Lasæa 1. *rubra*.  
 Tellina 1. *solidula*.  
   2. *tenuis*.

*Tellina* 3. *fabula*.

4. *squalida*.  
    5. *donacina*.  
 Psammobia 1. *feroensis*.

*Donax* 1. *complanata*.  
   2. *trunculus*.

- Capsa* 1. *Irus*.  
   2. *perforans*.  
   3. *pullastra*.  
   4. *reticulata*.  
   5. *virgo*.  
   6. *crocea*.

*Venus* 1. *Chione*.  
   2. *verrucosa*.  
   3. *laminosa*. Cassina.

4. *gallina*.  
    5. *Prideauxii*.  
    6. *fasciata*.  
    7. *Damnoniensis*.  
    8. *scotica*.  
    9. *minima*.  
 10. *compressa*.  
 11. *mercenaria*. (*Islandica*).  
 12. *ovata*.

*Asa* 1. *exoleta*.

2. *linæta*.

*Thyatira* 1. *lactea*.*(Loripes)* 2. *radula*.

3. *flexuosa*.

*Mysia* 1. *undata*.

2. *Montagui*.

*Cyrachæa* 1. *spinifera*.*Arcopagia* 1. *crassa*.*Cardium* 1. *aculeatum*.

2. *echinatum*.

*β. ciliare*.

3. *tuberculatum*.

*β. nodosum*.

4. *edule*.

*β. rusticum*.

5. *zonatum*.

6. *exiguum*.

7. *lævигatum*.

*Isocardia* 1. *Cor*.*Arcadæ.**Arca* 1. *fusca*.

2. *Pennantii*.

*Unionidæ.**Unio* 1. *pictorum*.

2. *ovalis*.

Anodonta 1. <i>cygnea</i> .	Pecten 1. <i>maximus</i> .
$\beta$ . <i>stagnalis</i> .	2. <i>vulgaris</i> .
$\gamma$ . <i>anatinus</i> .	3. <i>varians</i> .
$\delta$ . <i>avonensis</i> .	4. <i>distortus</i> .
Damalis 1. <i>margaritifera</i> .	5. <i>obsoletus</i> .
<i>Pectunculidae</i> .	6. ( <i>lævis</i> ).
Pectunculus 1. <i>pilosus</i> .	
<i>Aviculadæ</i> .	
Avicula 1. —?	Ostrea 1. <i>edulis</i> .
<i>Pinnadæ</i> .	Anomia 1. <i>striata</i> .
Pinna 1. <i>fragilis</i> .	2. <i>cymbiformis</i> .
2. <i>elegans</i> .	3. <i>ephippium</i> .
Mytilus 1. <i>edulis</i> .	
2. <i>pellucidus</i> .	Terebratuladæ.
3. <i>elegans</i> .	Terebratula 1. <i>cranium</i> .
Modiola 1. <i>papuana</i> .	2. —?
2. <i>Gibbsii</i> .	
3. <i>Prideauxii</i> .	Incerta sedes.
4. <i>discrepans</i> .	Mya <i>ferruginea</i> .
5. <i>discors</i> .	<i>inæquivalvis</i> .
<i>Pectenidæ</i> .	<i>bidentata</i> .
Lima 1. <i>Goodallii</i> .	Solen <i>squamosus</i> .
2. <i>bisulcata</i> .	<i>pinna</i> .
	Mactra <i>triangularis</i> .

N.B. The names of the bivalves were copied by Mr. Stevens from a catalogue prepared at another time, and hence the difference in the position of the numbers.

## PROCEEDINGS OF LEARNED SOCIETIES.

### ROYAL SOCIETY.

June 17, 1847.—“On the Structure and Development of the Liver.”  
By C. Handfield Jones, M.B., Cantab. Communicated by Sir Benjamin C. Brodie, Bart., F.R.S., &c.

The author gives a detailed description of the structure of the liver in animals belonging to various classes of the animal kingdom. He states that in the Bryozoon, a highly organized polype, it is clearly of the follicular type; and that in the Asterias, the function of the liver is probably shared between the closed appendage of the stomach and the terminal cæca of the large ramifying prolongations of the digestive sac contained in the several rays. Among the Annulosa, the earthworm presents an arrangement of the elements of the hepatic organ, corresponding in simplicity with the general configuration of the body, a single layer of large biliary cells being applied as a kind of coating over the greater part of the intestinal canal. In another member of the same class, the Leech, in which the digestive cavity is much less simple, and presents a number of sacculi on each side, these elements have a very different disposition; and